

*If you are using a printed copy of this procedure, and not the on-screen version, then you **MUST** make sure the dates at the bottom of the printed copy and the on-screen version match. The on-screen version of the Collider-Accelerator Department Procedure is the Official Version. Hard copies of all signed, official, C-A Operating Procedures are kept on file in the C-A ESHQ Training Office, Bldg. 911A.*

## C-A OPERATIONS PROCEDURES MANUAL

### ATTACHMENT

#### 4.120.2.a 2 O’Clock (PEER 11) Critical Device & Permit Link Tests

C-A-OPM Procedures in which this Attachment is used.		
4.120.2		

#### Hand Processed Changes

<u>HPC No.</u>	<u>Date</u>	<u>Page Nos.</u>	<u>Initials</u>
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Approved: \_\_\_\_\_ ***Signature on File*** \_\_\_\_\_  
 Collider-Accelerator Department Chairman Date

V. Castillo

#### 4.120.2.a 2 O’Clock (PEER 11) Critical Device & Permit Link Tests

### PASS ANNUAL ACCEPTANCE TEST PROTOCOL

Division A Software Filename and Checksum: Title: \_\_\_\_\_ Checksum: \_\_\_\_\_

Division B Software Filename and Checksum: Title: \_\_\_\_\_ Checksum: \_\_\_\_\_

**Initial testing complete:**

Test Team Leader’s Name (Print): \_\_\_\_\_ Life Number: \_\_\_\_\_

Test Team Leader’s Name (Sign): \_\_\_\_\_ Date: \_\_\_\_/\_\_\_\_/\_\_\_\_

**Acceptance test procedure complete (following repairs and retesting if required):**

Test Team Leader’s Name (Print): \_\_\_\_\_ Life Number: \_\_\_\_\_

Test Team Leader’s Name (Sign): \_\_\_\_\_ Date: \_\_\_\_/\_\_\_\_/\_\_\_\_

**Test results reviewed by:**

Safety Section Head’s Name (Print): \_\_\_\_\_ Life Number: \_\_\_\_\_

Safety Section Head’s Name (Sign): \_\_\_\_\_ Date: \_\_\_\_/\_\_\_\_/\_\_\_\_

**Test results accepted by Radiation Safety Committee:**

RSC Member’s Name (Print): \_\_\_\_\_ Life Number: \_\_\_\_\_

RSC Member’s Name (Sign): \_\_\_\_\_ Date: \_\_\_\_/\_\_\_\_/\_\_\_\_

## 1.1 Setup and test of Critical Devices and Permit Link response to a loss of PASS enable

<b>SET</b>	<b>CD Key switch for</b>	<b>XY ARC</b>
<input type="checkbox"/> <b>VERIFY</b>	<b>CD Key switch is set for</b>	<b>XY ARC</b>
<b>PLACE</b>	<b>Peer 11 in Mode 8</b>	
<input type="checkbox"/> <b>VERIFY</b>	<b>Peer 11 is in Restricted Access</b>	<b>MODE 8</b>
<input type="checkbox"/> <b>VERIFY</b>	<b>MCR sees RHIC Inj. CD on CD page</b>	<b>DISABLED</b>
<input type="checkbox"/> <b>VERIFY</b>	<b>MCR sees RHIC Injn CD inhibit Div A <input type="checkbox"/> and Div B <input type="checkbox"/></b>	<b>ON</b>
<input type="checkbox"/> <b>VERIFY</b>	<b>MCR sees RHIC ring CD, (B/S 1,2, &amp; 3) on CD page</b>	<b>DISABLED</b>
<input type="checkbox"/> <b>VERIFY</b>	<b>MCR sees RHIC ring inhibit Div A <input type="checkbox"/> and Div B <input type="checkbox"/> (BS 1&amp;2)</b>	<b>ON</b>
<input type="checkbox"/> <b>VERIFY</b>	<b>MCR sees RHIC Reachback latch inhibit Div A <input type="checkbox"/> and Div B <input type="checkbox"/> (BS3)</b>	<b>OFF</b>
<input type="checkbox"/> <b>VERIFY</b>	<b>MCR sees RHIC Permit Link Div A <input type="checkbox"/> and Div B <input type="checkbox"/></b>	<b>DISABLED</b>
<b>PLACE</b>	<b>Peer 11 in Mode 16</b>	
<input type="checkbox"/> <b>VERIFY</b>	<b>Peer 11 is in Controlled Access</b>	<b>MODE 16</b>
<input type="checkbox"/> <b>VERIFY</b>	<b>Peer 11 gate 3GI1 is</b>	<b>CLOSED</b>
<input type="checkbox"/> <b>RESET</b>	<b>Peer 11 gates: 1GS1, 1EL1, 1GI1, 2MD1, 2GE1, 2MD2, 2GI1, 2GE2, 2MD3, 2EL1, and 2ED1</b>	
<input type="checkbox"/> <b>VERIFY</b>	<b>Peer 11 gates: <input type="checkbox"/> 1GS1, <input type="checkbox"/> 1EL1, <input type="checkbox"/> 1GI1, <input type="checkbox"/> 2MD1, <input type="checkbox"/> 2GE1, <input type="checkbox"/> 2MD2, <input type="checkbox"/> 2GI1, <input type="checkbox"/> 2GE2, <input type="checkbox"/> 2MD3, <input type="checkbox"/> 2EL1, and <input type="checkbox"/> 2ED1 are</b>	<b>RESET</b>
<b>SWEEP</b>	<b>Peer 11 Zones: 1Z1, 2Z1, 2Z2</b>	
<input type="checkbox"/> <b>VERIFY</b>	<b>Peer 11 Zones: <input type="checkbox"/> 1Z1, <input type="checkbox"/> 2Z1, <input type="checkbox"/> 2Z2 are</b>	<b>SWEPT</b>
<b>PLACE</b>	<b>Peer 11 in Mode 24</b>	
<input type="checkbox"/> <b>VERIFY</b>	<b>Peer 11 is in No Access</b>	<b>MODE 24</b>
<input type="checkbox"/> <b>VERIFY</b>	<b>MCR sees RHIC Inj. CD on CD page</b>	<b>DISABLED</b>
<input type="checkbox"/> <b>VERIFY</b>	<b>MCR sees RHIC Injn CD inhibit Div A <input type="checkbox"/> and Div B <input type="checkbox"/></b>	<b>OFF</b>
<b>SET</b>	<b>RHIC Primary Beamstop command</b>	<b>OUT</b>
<input type="checkbox"/> <b>VERIFY</b>	<b>RHIC Primary Beamstop command is</b>	<b>OUT</b>
<input type="checkbox"/> <b>VERIFY</b>	<b>MCR sees RHIC ring CD, (B/S 1,2, &amp; 3)</b>	<b>DISABLED</b>
<input type="checkbox"/> <b>VERIFY</b>	<b>MCR sees RHIC ring inhibit Div A <input type="checkbox"/> and Div B <input type="checkbox"/> (BS 1&amp;2)</b>	<b>OFF</b>
<input type="checkbox"/> <b>VERIFY</b>	<b>MCR sees RHIC Reachback latch inhibit Div A <input type="checkbox"/> and Div B <input type="checkbox"/> (BS3)</b>	<b>OFF</b>
<input type="checkbox"/> <b>VERIFY</b>	<b>MCR sees RHIC Permit Link Div A <input type="checkbox"/> and Div B <input type="checkbox"/></b>	<b>ENABLED</b>
<b>TURN</b>	<b>Any key in the RHIC Key Tree</b>	
<input type="checkbox"/> <b>VERIFY</b>	<b>MCR sees Peer 11 go to</b>	<b>MODE 2</b>
<input type="checkbox"/> <b>VERIFY</b>	<b>MCR sees RHIC Inj. CD on CD page</b>	<b>DISABLED</b>
<input type="checkbox"/> <b>VERIFY</b>	<b>MCR sees RHIC Injn CD inhibit Div A <input type="checkbox"/> and Div B <input type="checkbox"/></b>	<b>ON</b>

<input type="checkbox"/>	<b>VERIFY</b>	<b>MCR</b> sees <b>RHIC ring CD</b> , (B/S 1,2, & 3) on CD page	<b>DISABLED</b>
<input type="checkbox"/>	<b>VERIFY</b>	<b>MCR</b> sees <b>RHIC ring inhibit Div A</b> <input type="checkbox"/> and <b>Div B</b> <input type="checkbox"/> (BS 1&2)	<b>ON</b>
<input type="checkbox"/>	<b>VERIFY</b>	<b>MCR</b> sees <b>RHIC Reachback latch inhibit Div A</b> <input type="checkbox"/> and <b>Div B</b> <input type="checkbox"/> (BS3)	<b>OFF</b>

<input type="checkbox"/>	<b>VERIFY</b>	<b>MCR</b> sees <b>RHIC Permit Link Div A</b> <input type="checkbox"/> and <b>Div B</b> <input type="checkbox"/>	<b>DISABLED</b>
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	<b>PLACE</b>	<b>Peer 11</b> in <b>Mode 8</b>	
<input type="checkbox"/>	<b>VERIFY</b>	<b>Peer 11</b> is in <b>Restricted Access</b>	<b>MODE 8</b>

☐ **Check for acceptance of Setup and test of Critical Devices and Permit Link response to a loss of PASS enable.**

### END OF TEST PROCEDURE

**TTL: Sign for completion of initial testing:** \_\_\_\_\_

**Date:** \_\_\_\_/\_\_\_\_/\_\_\_\_

**TTL: Sign for completion of final testing:** \_\_\_\_\_

**Date:** \_\_\_\_/\_\_\_\_/\_\_\_\_